

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A light channeling panel produced by:

(a)[[,]] cutting a parallel array of first cuts through a first sheet of transparent plastic with a cutting machine, each of the first cuts having two opposite substantially parallel walls extending inwardly from an inner face of the first sheet, the first cuts being made with specified spacings therebetween ~~between the parallel cuts~~ and at a specified angle from ~~the a~~ normal to the inner surface of said the first sheet and with borders around the periphery of the first sheet and thin internal columns perpendicular to the first cuts left uncut in the first sheet to support ~~the~~ cut regions in said the first sheet;

(b)[[,]] cutting a parallel array of second cuts through a second sheet of transparent plastic with a cutting machine, each of the second cuts having two opposite substantially parallel walls extending inwardly from an inner face of the second sheet, the second cuts through said the second sheet being made at the same specified spacings therebetween ~~between the parallel cuts~~ as for the first sheet and at a specified angle from ~~the a~~ normal to the inner surface of said the second sheet and with borders around the periphery of said the second sheet and thin internal columns perpendicular to the cuts left uncut in the sheet to support the cut regions in said the second sheet;

(c)[[,]] transposing[[,]] (~~that is, rotating through 180° or flipping about an axis perpendicular to the line of the cuts~~), said the second sheet and so as to fixing the inner surface face of said the transposed second sheet in contact with the inner surface face of said the first sheet such ~~that~~ the edges of the second cuts in said transposed second sheet are collinear with the edges of the first cuts in said the first sheet so as to form a light channeling panel containing an array of light channels that channel light by refraction at ~~the~~ a first an input surface face of the first sheet[[,]] by total internal reflection at the cuts and by refraction at ~~the~~ an output a second surface face of the second sheet, from ~~the~~ a first (input) face of said the light channeling panel[[,]] through to ~~the~~ a second (output) face of said the light channeling panel.

2. (currently amended) A light channeling panel produced by:

(a)[[,]] cutting a parallel array of first cuts partly through a first sheet of transparent plastic with a cutting machine, each of the first cuts having two opposite substantially parallel walls extending inwardly from an inner face of the first sheet, the first cuts being made with specified spacings therebetween ~~between the parallel cuts~~ and at a specified angle from ~~the~~ a normal to the inner surface of said the first sheet;

(b)[[,]] cutting a parallel array of second cuts through a second sheet of transparent plastic with a cutting machine, each of the second cuts having two opposite substantially parallel walls extending inwardly from an inner face of the second sheet, the second cuts through ~~said the~~ second sheet being made at the same specified spacings therebetween ~~between the parallel cuts~~ as for the first sheet and at a specified angle from ~~the~~ a normal to the inner surface of said the second sheet;

(c)[[,]] transposing[[,]] (~~that is, rotating through 180° or flipping about an axis perpendicular to the line of the cuts~~), said the second sheet and so as to fixing the inner surface face of said the transposed second sheet in contact with the inner surface face of said the first sheet such that the edges of the second cuts in said transposed second sheet are collinear with the edges of the first cuts in said the first sheet so as to form a light channeling panel containing an array of light channels that channel light by refraction at ~~the an input~~ a first surface face of the first sheet[[,]] by total internal reflection at the cuts and by refraction at ~~the an output~~ a second surface face of the second sheet, from ~~the a first (input)~~ face of said the light channeling panel[[,]] through to ~~the a second (output)~~ face of said the light channeling panel.

3. (currently amended) A light channelling panel produced by:

(a)[[;]] cutting a parallel array of first cuts through a the first face of a sheet of transparent plastic with a cutting machine, each of the first cuts having two opposite substantially parallel walls, the first cuts being made at specified spacings between the parallel first cuts and at a specified angle from ~~the a~~ normal to the first face of the said sheet, the said first cuts extending partly through the said sheet;

(b)[[,]] transposing[[,]] (~~that is, rotating through 180° or flipping about an axis perpendicular to the line of the cuts~~); the said sheet of transparent plastic and, by use of cutting machine, cutting a second parallel array of second cuts through a the second face of the said sheet at the same specified spacings as the first cuts made through the said first face and at the same, or a different angle, from the normal to the said sheet, each of the second cuts having two opposite substantially parallel walls, the said second cuts through the said second face extending partly

through the said sheet to just meet ~~the~~ internal or bottom edges of the first cuts made through the said first face~~[[,]]~~ with borders around the periphery of the sheet and thin internal columns perpendicular to the laser cuts left uncut to support ~~the~~ cut regions of the said sheet, the first cuts through the said first face and the second cuts through the said second face meeting within the said panel so as to form a light ~~channelling~~ channeling panel containing an array of light channels that channel light, by refraction at ~~the~~ an input face, by total internal reflection at the cuts and by refraction at ~~the~~ an output face, from the first~~[[()]]input[()]]~~ face of the said light channeling panel, through to the ~~second~~ ~~[[()]]input[()]]~~ face of the said light channeling panel.

4. (previously presented) A light channeling panel as in claim 1 in which the cuts are made with a laser cutting machine in sheets of transparent acrylic plastic.

5. (previously presented) A light channeling panel as in claim 1 in which the cuts are made with a water cutting machine in sheets of transparent plastic.

6. (previously presented) A light channeling panel as in claim 1 fixed in vertical orientation in a window opening to a building to channel all, or substantially all, of the sunlight incident on the first face of the panel through to the second face of the panel and upward, into the building, so as to illuminate the building with sunlight reflected diffusely from the ceiling onto work surfaces in the building.

7. (previously presented) A light channeling panel as in claim 2 in which the cuts are made with a laser cutting machine in sheets of transparent acrylic plastic.

8. (previously presented) A light channeling panel as in claim 3 in which the cuts are made with a laser cutting machine in sheets of transparent acrylic plastic.

9. (previously presented) A light channeling panel as in claim 2 in which the cuts are made with a water cutting machine in sheets of transparent plastic.

10. (previously presented) A light channeling panel as in claim 3 in which the cuts are made with a water cutting machine in sheets of transparent plastic.

11. (previously presented) A light channeling panel as in claim 2 fixed in vertical orientation in a window opening to a building to channel all, or substantially all, of the sunlight incident on the first face of the panel through to the second face of the panel and upward, into the building, so as to illuminate the building with sunlight reflected diffusely from the ceiling onto work surfaces in the building.

12. (previously presented) A light channeling panel as in claim 3 fixed in vertical orientation in a window opening to a building to channel all, or substantially all, of the sunlight incident on the first face of the panel through to the second face of the panel and upward, into the building, so as to illuminate the building with sunlight reflected diffusely from the ceiling onto

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work surfaces in the building.